Britannica's 44 Million Words Are Going On

By JOHN MARKOFF

Special to The New York Times

offering electronic distribution of its clopedia Britannica, the publisher of world's largest computer network public libraries via the Internet, the materials to universities and some gious reference work, said today that the nation's oldest and most prestit would enter the information age by SAN FRANCISCO, Feb. 7 — Ency.

Encyclopedia

Compton's

and are concluding that the opportuoffering only hard-bound volumes — The development is one of the clearest indications that traditional publishers realize the limitations of the risks. nities of on-line publishing outweigh

Britannica

Encyclopedia

Encyclopedia Interactive

Encarta

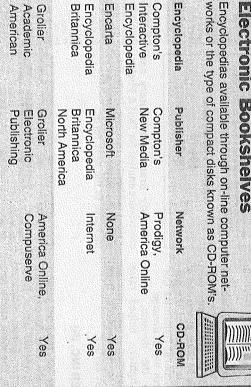
they want the largest possible mar-ket," said Christopher Locke, general manager of Mecklermedia, a West-port, Conn., publishing and exhibition company. "They don't want to be lishing market are beginning to see trapped in markets that are Balkanzed or private." "Companies in the electronic pub-

> American Academic Groller

available on line, but the Encyclope-dia Britannica is the largest, with worldwide revenues of \$550 million Several encyclopedias are already

Electronic Bookshelves

Encyclopedias available through on-line computer net-



trations and adorns the bookshelves of millions of libraries and homes. 32-volume reference work, which cona milestone in miniaturization for the move toward instant information and tains 44 million words and 23,000 illus-It also represents a significant

This is a blessing for every schoo

before, the night before we have the Institute for the Future in Menlo Park, Calif. "We've all been there kid," said Paul Saffo, a researcher at

paper due in class." The 225-year-old Encyclopedia Briously published encyclopedia in the tannica, which is the oldest continu-

> students beginning in the fall using a English language, will be made available initially to university faculty and variety of information-retrieval techers and that are being quickly comnologies that have been developed mercialized. experimentally by Internet research-

would be a first step to insure that the able to a larger commercial audiwas well tested. electronic version of the encyclopedia make their reference data base availtives said they were also planning to Encyclopedia Britannica execuacademic distribution

has been an astonishing one for me," said Robert McHenry, editor in chief of the Britannica. "I've scrambled pretty hard just to keep up with the technical language." "The whole development process

clopedia Britannica, to be called Britional text version. that cannot be matched by the tradi version includes "hypertext" links of California at San Diego. The on-line students and faculty at the University tannica Online, is now being tested by The electronic version of the Ency.

This technology makes it possible

Continued on Page C2

Exchange, (M) The Adictives of Exchange, (MMS) Nasdaq National Market System, (NSC) Nasdaq Small Capitalization, and (ECM) Emerging Company Marketplace.

The Lockheed Corporation, one of tors, reported a 13 percent increase

the nation's largest military contrac-

Adia Services Inc. (NMS)

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742,694,000 C12,236,000 .97	affiliated
918,470,000 520,550,000 1.64	in as a rest
Yr rev Net inc Share earns	b-Included ga
	Yrrev 918,470,000 742,694,000 p 3. Net inc b20,550,000 c12,236,000 p 3. Share earns 1.64 .97 28

c-included gain as a result of tax-sharing agreements with affiliated companies of 1.44 million, or 11 cents a share, in the quarter and 13.44 mil-lion, or 13 cents a share, in the year. sharing agreements with attributed companies of 2 million, or 16 cents a share, in the quarter and \$2.5 million, or 20 cents a share, in the year.

Allied Group Inc. (NMS) 1003 Ofrth Der 31

1992

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116,650,715 C7,400,170 51 446,590,629 C28,674,952	stment gains juarter and shre, in the	stment gains share, in the or 9 cents a
121,822,866 b10,318,596 .66 482,441,808 b39,922,421	b. Included realized investment gains of \$75,225 in the quarter and \$1,395,338, or 6 cents a shre, in the year.	c-included realized investment gains of \$133,147, or 1 cent a share, in the quarter and \$1,974,627, or 9 cents a share, in the year.
Revenue Net inc Share earns Yr rev Net inc	b-Included of \$75,225 \$1,395,938, year.	c-included realized of \$133,147, or 1 ce quarter and \$1,974 share, in the year.

Arctco Inc. (NMS)

1992 63,327,000 5,953,000	18,283,000 168,801,000 18,597,000	06,375,91
1993 88,161,000 9,598,000	.49 19,533,000 232,478,000 26,208,000	19,497,000
Qtr to Dec 31 Sales Net inc	Share earns Shares outst 9mo sales Net inc	Share earns Shares outst

1993 Automotive Industries Holding Inc. (NMS) 1994 04.005.000 Otrto Jan 1 Revenie

any's sales for the quarter were up igs. The company's earnings of \$2.13 share exceeded consensus expectaons of analysts by 7 cents. The comyesterday for its fourth-quarter earn-8 percent.

calif., said its backlog at the end of the year was 50 percent higher than the \$19.4 billion backlog at the end of 1992, much of it a result of the purchase of the General Dynamics Cor-Lockheed, based in Calabasas. poration's Forth Worth division.

Sales from the division, which makes F-16 fighters, helped raise Lockheed's revenue from foreign overnments to 13 percent, from percent a year earlier.

IME WARNER INC. (N)

25 cents a share, in the period a year earlier. Revenues for the quarter jumped 9.6 percent, to \$4.12 billion. lay its first profit after the payment of preferred dividends since Time entertainment company posted net income of \$7 million, or I cent a share, in contrast to its loss of \$93 million, or nc. and Warner Communications merged in 1989. The giant media and Time Warner Inc. reported yester-

Jessica Reif. an analyst who folbusinesses, nothing that operating profits in cable and film entertainformance to increased profits in its music, publishing and pay-television The company attributed the perment had declined for the quarter.

	1892	5%
3,739,000,000	2,920,000,000	+28
135,000,000	119,000,000	+13
2.13	1,95	
63,400,000	61,100,000	
13,071,000,000	10,100,000,000	+23
422,000,000	b283,000,000	
6.70	(4.58)	
62,900,000	61,700,000	
b-Net loss, which was after a charge of \$631 million,	harge of \$631 (A 106,
snare, renecuny ure	acopyrol of	

Brandy Brandon, a military and electronics analyst for Duff & Phelps, said Lockheed's revenue from foreign arms buyers would continue to increase in the near term. \$64.75 Up 25¢

Net loss 127,000,000 C66,000,000 Sh. earn (90) (144) Sh. out 374,700,000 371,000,000 Sh. out 374,700,000 371,000,000 Sh. out 37,4700,000 371,000,000 Sh. out sa strate. Inom the retirement of debt, and a charge of 570 million, or 19 cents a share, recorded in the lastst timit quarter from the increase in the corporate tax rate.

The results for 1993 and 1992 each included noncash amortization charges of about \$500 million cash amortization charges of about \$500 million cash amortization charges of about \$500 million cash amortization parter was \$4 million, compared with a net loss of \$93 million, tor year-adop period. After the payment of preferred dividends, net income in the latest fourth quarter was \$539 million, compared with a net loss of \$93 million, for year-adop period. After the payment of preferred dividends, the net loss in the latest year was \$539 million, compared (25) 371,600,000 13,560,000,000 +7.25 c6,000,000 +9.6 %CH 3,759,000,000 - 68,000,000 14,544,000,000 b221,000,000 4,119,000,000 377,200,000 1993 Qtr. to Dec 31 Sh. earn Sh. out. Yr rev. Net inc.

192	ដង់ដ	1 2	are
Sales Net inc	Share earns Shares outst 6mo sales Noting	Share earns Shares outst	Year-ago share
215,761,000 b2,738,000 837,737,000	2,878,000	available.	dollars.
	22,271,000	b-Net loss Share earnings were not available.	Results are in Canadian dollars.
Qtrto ueco: Revenue Net inc	Yr rev Nef inc Share earns	b-Net loss Share earni	Results are

ranklin Electric Co. (NMS)

≥ 5	ŘŽ'n	i≻žŏ	ቖዻ
1993 49,029,000 C2,870,000	198,618,000 C13,811,000	93,000, or 15 tange in ac-	ary tax cred- share, in the
Ofrto Jan 1 1994 Sales 52,105,000 Net inc 3,905,000	206,406,000 b17,096,000 2.52	b-included a gain of \$993,000, or 15 cents a share, from change in accounting for income taxes.	c-included an extraordinary tax cred- it of \$36,000, or 1 cent a share, in the
Ofr to Jan 1 Sales Net inc	Share earns Yr sales Net inc Share earns	b-Included cents a sha	c-Included

Yesterday's closing price:

in U. 35,000, or 3 cents a quarter and 8155,000, or 3 cents a share, in the year.
Share earnings are fully diluted.

Handy & Harman (N)

144,569,000	77,270,000 00,012,577 11,697,000 18.	6,000, or 4
176,436,000 2,229,000	.16 658,253,000 b9,476,000	gain of \$576,000, or 4
	Share earns Yr sales Net inc Share earns	b-included a

Fiscal 1993 included a charge of \$2.8 million (\$1,662,000, or 12 cents a share after-taxes, retaint of the sale of two business units in the non-precious metal business segment. cents a share, from cumulative effect of change in accounting for income taxes.

Harsco Corp.(N)

1992 414,092,000 25,150,000	25,564,000 1,624,939,000 C84,332,000	25,967,000 02,000, or 27	taxes. Rainn or 37
31 1993	24,964,000	Share earns 25,037,000 25,967,000 b-Included a gain of \$6,802,000, or 27	cents a snare, from enert or a charge
407,021,000	1,422,308,000		in accounting for income faxes.
16,120,000	b87,618,000		After a charca of \$7,184,000 or 97
Otr to Dec 31		Share earns	cents a snar
Sales		Shares outst	in accountir
Net inc		b-Included a	c-Atter a ct

170,783,000 12,037,000 12,037,000 33,005,000 22,578,000 22,578,000 Year-ago share earnings and shares outstanding are adjusted for a 4-for-3 stock split in Abril 1993. 277,000 7,757,000 1,517,000 1,763,000 1,783,000 1,783,000 1,25 2,758,000

1992 48,315,232 3,020,858 10,913,748 181,303,289 10,574,172 10,913,012 b-Affer a gain of \$500,000, or 4 cents a share, from change in accounting for income taxes. .S. Carriers Inc.(NMS) 13,078,607 224,716,304 b14,101,970 1.17 1993 60,426,405 3,666,874 fr to Dec 31 evenue hare earns hares outst r rev hare earns hares outst

b-Affer a gain of \$1,941,000, or 23 cents a share, from an adjustment in ac-counting. 275,913,000 1,854,000 ,24 900,571,000 8,655,000 Marsh Supermarkets (NMS) 1994 291,191,000 1,568,000 951,147,000 b8,747,000 1.04 Share earns 9mo sales Net inc Share earns Otr to Jan 1 Sales Net inc 8

Masland Corp. (NMS)

Masiand Corp. (Ams.)		
Ofr to Dec 31	1993	1665
Sales	000'206'86	82,040,000
Netinc	3,884,000	2,405,000
Share earns	.27	9.
Sharesoutst	13,951,432	14,057,597
6mo sales	188,944,000	159,778,000
Neting	2,168,000	3,188,000
Shareearns	89.	81,
Sharesoutst	14,017,251	14,043,159
Shares outst	Shares outstanding were adjusted to	adjusted to
nive effect t	o conversion	of class P
common stoc	ck into comm	ion stock at
time of initial	fime of initial public offering.	ing.
		THE PROPERTY OF THE PARTY OF TH

MDU Resources Group Inc.(N)

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86
7993 nr. nr. 177
Otr to Dec 31 Revenue